

<b>P &amp; K Sand and Gravel, Inc.</b>	)	<b>Departmental</b>
<b>Cumberland County</b>	)	<b>Findings of Fact and Order</b>
<b>Naples, Maine</b>	)	<b>Air Emission License</b>
<b>A-586-71-D-M</b>	)	<b>Amendment #1</b>

After review of the air emissions license application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

**A. Introduction**

P & K Sand and Gravel, Inc. was issued Air Emission License A-586-71-C-N on April 15, 2002 permitting the operation of emission sources associated with their concrete plant in Naples, Maine.

P & K Sand and Gravel, Inc. has requested a minor revision to remove generator #1, the primary and secondary rock crushers and to add a parts cleaner.

**B. Emission Equipment**

P & K Sand and Gravel is licensed to operate the following equipment\* :

**Concrete Plant:**

<b><u>Equipment</u></b>	<b><u>Process Rate (cubic yards/hour)</u></b>	<b><u>Control Devices</u></b>	<b><u>Stack ID</u></b>
Concrete Batch Plant	150	Baghouse (2)	6

**Fuel Burning Units:**

<b><u>Unit</u></b>	<b><u>Maximum Capacity (MMBtu/hr)</u></b>	<b><u>Firing Rate (gal/hr)</u></b>	<b><u>Power Output (hp)</u></b>	<b><u>Fuel, % Sulfur</u></b>
Generator #2	0.7	5.1	100	Diesel, 0.05%
Generator #3	0.7	5.1	100	Diesel, 0.05%
Boiler	1.4	9.0	--	#2, 0.35%

**Process Equipment:**

<b><u>Equipment</u></b>	<b><u>Chemical Compound</u></b>
Parts Cleaner(s)	Petroleum Distillates

**P&K Sand and Gravel, Inc.**  
**Cumberland County**  
**Naples, Maine**  
**A-586-71-D-M**

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2

**Departmental**  
**Findings of Fact and Order**  
**Air Emission License**  
**Amendment #1**

The following equipment is removed from the license:

<u><b>Unit</b></u>	<u><b>Maximum Capacity (MMBtu/hr)</b></u>	<u><b>Process Rate (tons/hour)</b></u>
Generator #1	3.8	--
Primary Rock Crusher	--	100
Secondary Rock Crusher	--	100

\*P & K Sand and Gravel also operates Waste Oil Furnaces #1 and #2, at maximum capacities of 0.28 MMBtu/hr and 0.26 MMBtu/hr. The waste oil furnaces are considered insignificant by size according to MEDEP Chapter 115 Appendix B(2), and are mentioned for inventory purposes only.

**C. Application Classification**

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the “Significant Emission Levels” as given in Maine’s Air Regulations. The modification to P & K Sand and Gravel’s license does not result in emission increases greater than these significant emission levels. This modification is therefore determined to be a minor revision and has been processed as such.

**D. Annual Emission Restrictions**

P & K Sand and Gravel shall not exceed 30,000 gallons of diesel fuel (with a maximum sulfur content of 0.05% by weight) in the generators, and 15,000 gallons of #2 fuel oil (with a maximum sulfur content of 0.35% by weight) in the boiler. All annual fuel emissions are on a 12-month rolling total basis.

**Total Allowable Annual Emissions for the Facility**  
(used to calculate the annual license fee)

<b>Pollutant</b>	<b>Boilers</b>	<b>Generators</b>	<b>Total Tons/year</b>
PM	0.13	0.64	0.77
PM <sub>10</sub>	0.13	0.64	0.77
SO <sub>2</sub>	0.40	0.11	0.51
NO <sub>x</sub>	0.50	9.10	9.6
CO	0.01	2.00	2.01
VOC	0.01	0.72	0.73

### ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License Minor Revision A-586-71-D-M, subject to the conditions found in Air Emission License A-586-71-C-N, and the following conditions:

**Conditions (17) and (18)(C) of License A-586-71-C-N are deleted.**

**The following are new conditions:**

(27) Parts Cleaner

The parts washers are subject to the operational and record keeping requirements of MEDEP Chapter 130 which include, but are not limited to, the following:

- A. P & K Sand & Gravel shall submit initial compliance certification according to Chapter 130 specifications, to the Department within 30 days of the signature date of this license.
- B. P & K Sand & Gravel shall keep records of the amount of solvent added to each parts washer.
- C. P & K Sand & Gravel shall attach a permanent conspicuous label to each unit summarizing the following operational standards of Chapter 130:
  1. Equip each degreaser with a cover that is easily operated with one hand if:
    - a.the solvent vapor pressure is greater than 15 millimeters of mercury measured at 100 °F by ASTM D323-89; or,
    - b.the solvent is agitated; or,
    - c.the solvent is heated.
  2. Close the covers (if required by (1) above) on all solvent degreasing tanks when the tanks are not in use;
  3. Drain the cleaned parts for at least fifteen (15) seconds or until dripping stops;
  4. If used, supply a solvent spray that is a solid fluid stream (not a fine, atomized or shower-type spray) at a pressure that does not exceed ten (10) pounds per square inch gauge pressure (psig);
  5. Do not degrease porous or absorbent materials, such as cloth, leather, wood or rope;
  6. Minimize drafts to less than 40 meters/minute;
  7. Refrain from operating the cold cleaning degreaser upon the occurrence of any visible solvent leak until such leak is repaired; and
  8. Do not use any halogenated solvents in the degreasing tanks.

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**A-586-71-D-M**

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**4**

**Departmental**  
**Findings of Fact and Order**  
**Air Emission License**  
**Amendment #1**

(28) This amendment shall expire concurrently with Air Emission License A-586-71-C-N.

DONE AND DATED IN AUGUSTA, MAINE THIS                      DAY OF                      2003.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
DAWN R. GALLAGHER, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: August 7, 2003

Date of application acceptance: August 19, 2003

Date filed with the Board of Environmental Protection: \_\_\_\_\_

This Order prepared by Rachel E. Pilling, Bureau of Air Quality